FCC CFR47 PART 18 SUBPART C

ISM EQUIPMENT

TEST REPORT

FOR

MICROWAVE OVEN

Model: S(x)D208(y)(z)-(u) Series (Testing case: SBD208B8H-P)

Magnetron Model: Galanz, M24FB-610A

Brand Name: Galanz

Test Report No.: 08CA1753-05

FCC ID: UHW8020003

Prepared for

GUANGDONG GALANZ ENTERPRISE (GROUP)CO.,LTD.

25 RONGGUI NAN ROAD, RONGGUI SHUNDE, GUANGDONG

P.R.C.528305

ACCORDING TO

FCC PART 18 INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT

&

FCC/0ST MP-5(1986) FCC METHODS OF MEASUREMENTS OF RADIO NOISE EMISSION FROM INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT

Prepared By: Vegia Huang		
Reviewed By: Yanhan Lu		
QC Manager: Valley.Wang		
Test Report Released By	_11/4/2008	
Name	Date	

List Attached Files

Exhibit Type	File Description	File Name
		UHW8020003
Test report	Test report	-Test report .pdf
		UHW8020003
Operation Description	Operation Description	-operationdescription .pdf
		UHW8020003
External Photos	External Photos	-external photos
		UHW8020003
Internal Photos	Internal Photos	-Internal photos
		UHW8020003
Block Diagram	Block Diagram	-block diagram.pdf
		UHW8020003
Schematics	Schematics	-schematics.pdf
		UHW8020003
ID Label/ Location	ID Label/Location	-label & location.pdf
		UHW8020003
User Manual	User Manual	-user manual .pdf
		UHW8020003
Test setup Photos	Test setup Photos	-test setup photos

Test Location

Tests performed at Galanz in a certified Ansi Semi-Anechoic Chamber and Shielded Room.

Test Site Location EMC Laboratory Guangdong Galanz Enterprises Co., Ltd 25 South Ronggui Rd., Shunde, Foshan, Guangdong, China.

Tel: 86-757-23612785 Fax: 86-757-23612537

In compliance with the site registration requirements of section 2.948 of the FCC rules to perform EMI measurements for the general public.

FCC Registration Number: 580210

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Opinions and Interpretations

This test report relates to the above mentioned equipment under test (EUT). Without permission of ATC-Lab Guangdong Group, this report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

Statement of Measurement Uncertainty

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

Administrative Data

 $\begin{array}{ll} \text{Test Sample} & \text{Microwave oven} \\ \text{Model Numbers} & S(x)D208(y)(z)\text{-}(u) \\ \text{Model Tested} & \text{SBD208B8H-P} \\ \end{array}$

Brand Name Galanz

Oct 30, 2008—Oct 31, 2008

Applicant Guangdong Galanz Enterprises Co., Ltd.

25 ronggui nan Rd., Shunde, Foshan, Guangdong, China

Telephone 86-757-23612785 Fax 86-757-23612537

Manufacturer Guangdong Galanz Enterprises Co., Ltd.

25 ronggui nan Rd., Shunde, Foshan, Guangdong, China

EUT DESCRIPTION

Guangdong Galanz Enterprises Co., Ltd. Model tested SBD208B8H-P (refer to the EUT in this report) is a Microwave Oven .

Specifications:

Power consumption	120Vac 60Hz, 1200W
Output	800W
Operation frequency	2450Hz
Magnetron brand	Galanz
Magnetron number	M24FB-610A
Outside dimensions(HxWxD)	10.3*17.8*13.0 in.
Cavity dimensions(HxWxD)	8.6*12.4*12.4 in.
Capacity	0.7 cu.ft
Cooking uniformity	Turntable System
Net weight	Approx.26.5lb.

Type of Deriver

S(x)D208(y)(z)-(u) model designations:

S	D	20	8	(x)	(y)	(z)	(u)
S: only with microwave function	D: D flat roof	20: 20: litres Cavity Volume	8: 800W Microwave output power	Touch control B: Button M: Mechanical E: Electric S: Sense D: Dial knob	Type of appearance	Door type H: Handle B: Button P: Pull U: Up-down	Type of cavity: S: stainless steel P: painted steel

Variable (x) may be B, M, E, S, D.

Variable (y) may compose by characters from A to Z and from 0 to 9.

Variable (z) may be H, B, P, U.

Variable (u) may be S or P.

Test Summary

The Electromagnetic Compatibility Requirements on model tested SBD208B8H-P for this test is stated below. All results listed in this report relate exclusively to this above mentioned model as the Equipment under Test. This report confers no approval or endorsement upon any other component, host or sub-system used in the test set-up

Emission Tests						
Specifications	Description	Remark				
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Input Power Measurement	Passed	AC Input Port	Attachment 2		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	RF Output Power Measurement	Passed	EUT	Attachment 3		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Operating Frequency Measurement	Passed	EUT	Attachment 4		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Conducted Emission	Passed	AC Input Port	Attachment 5		
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Radiated Emission	Passed	Enclosure	Attachment 6		

Load for Microwave Ovens

For all measurements the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tap water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs, for ovens rated at more than 1000 watts output, each quantity was increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts, additional beakers were used if necessary

- Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used, Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.
- Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the ovens

Equipment Modification

Any modifications installed previous to testing by Guangdong Galanz Enterprises Co., Ltd will be incorporated in each production model sold or leased in United States

EUT Sample Photos for model



Front and top view



Door open view

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Rear View of EUT

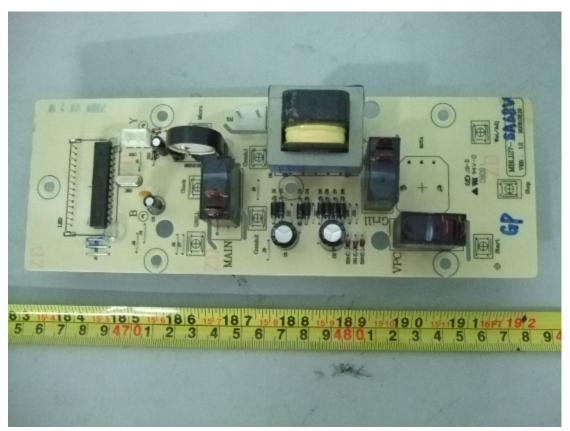


Uncovered View from right side

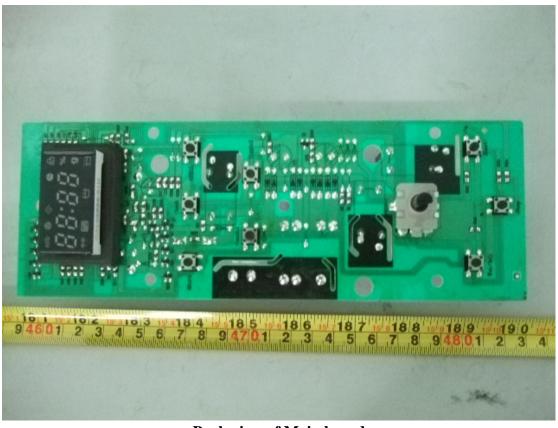
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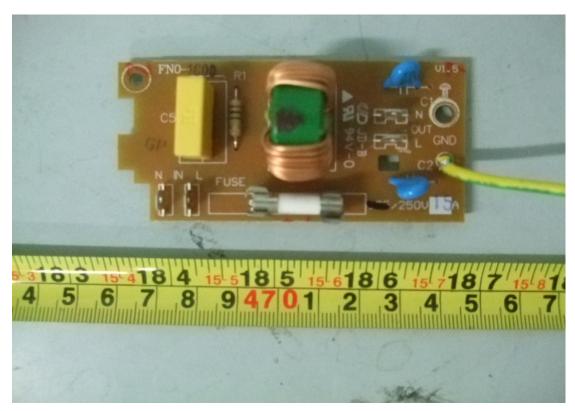
Front view of Main board



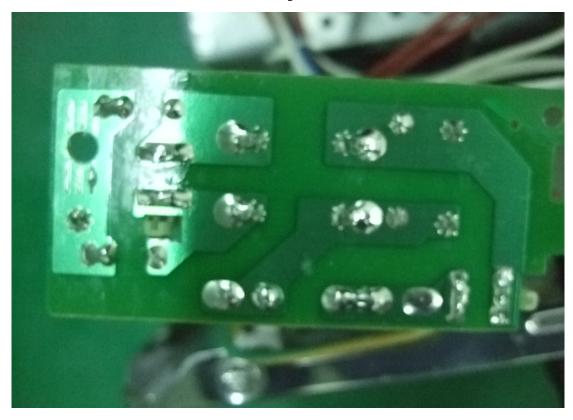
Back view of Main board

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Front View of AC power filter board



Back View of AC power filter board

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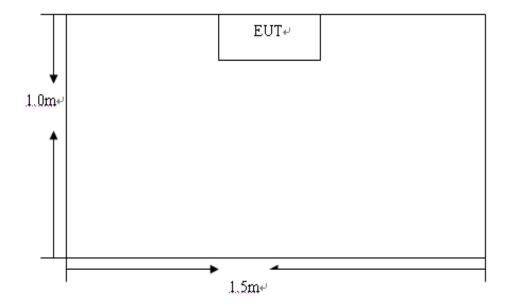


View of Magnetron

Test System Details

EUT							
Model Numbers	S(x)D20	08(y)(z)-(u)					
Model tested	SBD208	8B8H-P					
Description	Microw	ave Oven					
Manufacturer	Guango	long Galar	nz Enterprises C	o., Ltd			
		Suppo	ort Equipment				
			N/A				
		Cabl	e Description				
Description	From To Length Shielded Ferrite						
	Meters Y/N Y/N						
Power cord	EUT	Plug	1.10	N	N		

Configuration of Tested System



ATTACHMENT 1-RADIATION HAZARD TEST

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18		
Model Numbers: So	(x)D208(y)(z)-(u)	Product: Microwave Oven		
Model Tested: SBD	208B8H-P	EUT Designation: Home or Office		
Temperature: 23℃		Humidity: 48%RH		
ATM Pressure: 101	kPa	Grounding: Through AC power cord		
Tested By: Vegia Hi	uang	Date of Test: Oct 31, 2008		
Test Reference	ANSI C63.4: 2003, I	FCC/OST MP-5:1986		
Test Procedure	The EUT was set up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 1000ml water load in a beaker was located in the center of the oven and the Microwave oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage			
Tested Range	N/A			
Test Voltage	120VAC/60Hz			
Results	0.03mW/cm² observexternal surface of the A maximum of 1.0 rapplicable FCC star	mW/cm ² is allowed in accordance with the ndards. Hence, microwave leakage in the		
	as-received condition with the oven door closed was below the maximum allowed.			
	The test results relate only to the equipment under test provided by client.			
Changes or Modifications	There were no modifica	tions installed by Galanz test personnel		
M. Uncertainty	0.01 mW/cm ²			

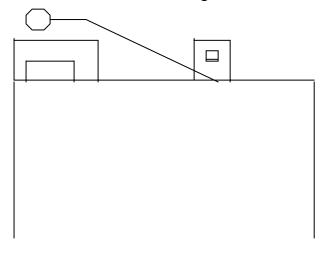
Test Equipment List

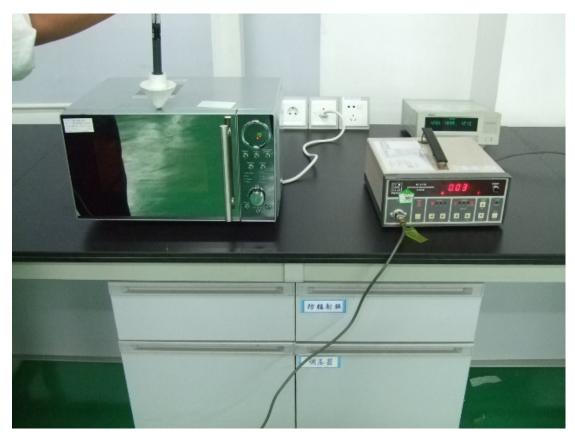
Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Equipment					
Field Monitor	ETS	AR FM5004	A0304252	2008-01-22	2009-01-21
Electric Field	ETS	AR FP6001	A0304302	2008-01-22	2009-01-21
probe					

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.

Radiation Hazard Test Set-up

Microwave Leakage Tester





Radiation Hazard Test Setup

ATTACHMENT 2-INPUT POWER MEASUREMENT

Client: Guangdong Co Ltd	Galanz Enterprises	Test Standard: FCC Part 18		
Model Numbers: So	(x)D208(y)(z)-(u)	Product: Microwave Oven		
Model Tested: SBD	208В8Н-Р	EUT Designation: Home or Office		
Temperature: 23℃		Humidity: 48%RH		
ATM Pressure: 101	kPa	Grounding: Through AC power cord		
Tested By: Vegia H	uang	Date of Test: Oct 31, 2008		
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986		
Test Procedure	The EUT was set up according to the FCC MP-5 and 18 for input power measurement, The input power and current was measured using a power analyzer. A 1000ml water load in a beaker was located in the center of the oven and the Microwave oven was set to maximum power, while the oven is operating, use a voltmeter and an ampere-meter to test the AC input voltage and current.			
Tested Range	N/A			
Test Voltage	120VAC/60Hz			
Results	Based on the measured input power, the EUT was found to be operating within the intended specifications The test results relate only to the equipment under test provided by client			
Changes or Modifications	There were no modifications installed by Galanz test personnel			
M. Uncertainty	±5W			

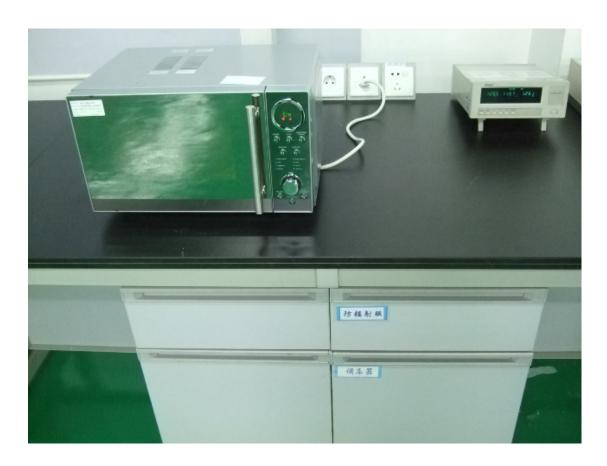
Test Data

Input Voltage	Input Current	Measured Input	Rated input
Vac/Hz	amps	power(watt)	power(watt)
120V/60Hz	10.51	1261	1200

Test Equipment List

Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Power frequency test system	Ainuo	AN8716PX	058704273	2008-07-06	2009-07-06

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



Input Power Test Setup

ATTACHMENT 3-RF OUTPUT POWER MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: S	(x)D208(y)(z)-(u)	Product: Microwave Oven	
Model Tested: SBD	208B8H-P	EUT Designation: Home or Office	
Temperature: 23°C		Humidity: 48%RH	
ATM Pressure: 101	kPa	Grounding: Through AC power cord	
Tested By: Vegia H	uang	Date of Test: Oct 31, 2008	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure Tested Range	measurement, The Calcoutput power. 1) A 1000ml water oven. 2) Measure and recload. 3) Start and keep to 120 seconds. 4) At the end of the temperature of to 5) Calculate the Richard seconds.	coording to the FCC MP-5 and 18 for RF power bric method was used to determine maximum RF load in a beaker is located in the center of the cord the initial temperature of the 1000ml water the oven operating at maximum output power for the 120 seconds, measure and record the final the 1000ml water load. Foutput power = 4.2 x 1000 x (Final Temp – Initial Temp) / 120	
Test Voltage	120VAC/60Hz		
Results Changes or Modifications	RF output power =717.5W The test results relate only to the equipment under test provided by client There were no modifications installed by Galanz test personnel.		
M. Uncertainty	±0.3°C		

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Test Data

Quality	of	Starting	Final	Elapsed time	RF output
water(ml)		temperature(°C)	temperature(°C)	(seconds)	power(watt)
1000		18.4	38.9	120	717.5

Test Equipment List

Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Data Acquisition	TES	TES-1310	021108782	2008-04-04	2009-04-04

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



RF Output Power Test Set-up

ATTACHMENT 4-OPERATING FREQUENCY MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: S(x)D208(y)(z)-(u)		Product: Microwave Oven	
Model Tested: SBD	208B8H-P	EUT Designation: Home or Office	
Temperature: 23℃		Humidity: 45%RH	
ATM Pressure: 102	2kPa	Grounding: Through AC power cord	
Tested By: Vegia H	uang	Date of Test: Oct 30, 2008	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure	Frequency measuremen 1) The Variation of fre The operating frequent starting with EUT at roo was located in the cer antenna at 3 meters dis maximum output pow monitored until the wat load. 2) The variation of fr The operating frequence EUT was operated/ war water load at room ter operating frequency w varied between 80 and	equency with time acy was measured using a spectrum analyzer, om temperature, a 1000ml water load in a breaker after of the oven, set a spectrum analyzer with stance from the oven and oven was operated at er, The fundamental operating frequency was er load was reduced to 20 percent of the original requency with Line Voltage. The sy was measured using a spectrum analyzer. The sy was measured using a spectrum analyzer. The sy was measured using a spectrum analyzer. The sy was measured using of the test. Then the sy was monitored as the input voltage was	
Tested Range	2450±50MHz		
Test Voltage	120VAC/60Hz		
Results	frequency with time & l	nges for details of the variation in operating ine voltage measurement	
Changes or Modifications	There were no modifica	tions installed by Galanz test personnel.	
M. Uncertainty	Freq. ±10kHz		

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Test data

Variation in Operating Frequency with Time

Minimum Frequency(MHz)	Maximum Frequency(MHz)	
2435.6	2471.8	

Variation in Operating Frequency with Line Voltage

Minimum Frequency(MHz)	Maximum Frequency(MHz)
2445.4	2469.2
Note: Line voltage varied from 96Vac to	150Vac

Test Equipment List

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Horn Antenna	ETS	3115	6587	2008-08-02	2010-08-02
Spectrum Analyzer	R&S	FSP30	100755	2007-11-30	2008-11-30
3m Anechoic chamber	ETS	N/A	N/A	2007-05-23	2009-05-23

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.

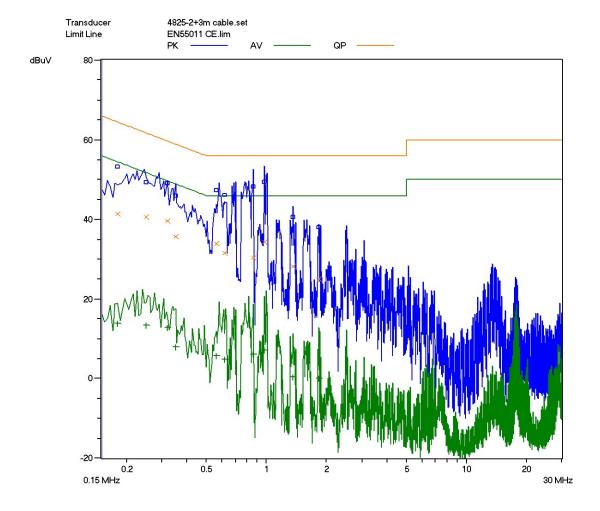


Operating Frequency Test Set-up

ATTACHMENT 5-CONDUCTED EMISSION TEST RESULTS

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18		
Model Numbers: S	(x)D208(y)(z)-(u)	Product: Microwave Oven		
Model Tested: SBD	208B8H-P	EUT Designation: Home or Office		
Temperature: 23°C		Humidity: 45%RH		
ATM Pressure: 102	2kPa	Grounding: Through AC power cord		
Tested By: Vegia H	uang	Date of Test: Oct 30, 2008		
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986		
Test Procedure	FCC MP-5 for conductor on each line and an EM measurement range, the and these signals were	ecording to the guideline of ANSI C63.4:2003 & ed emission, The measurement was using a AMN MI receiver peak scan was made at the frequency e six highest significant peak were then marked, then quasi peaked and averaged. The frequency from 150kHz to 30MHz		
Tested Range	150kHz to 30MHz			
Test Voltage	120VAC/60Hz			
Results	The EUT meets the requirements of test reference for conducted Emission on line L by 7.5dBuV of Quasi-peak detector and by 24.9 dBuV of Average detector.			
Changes or Modifications	There were no modifications installed by Galanz test personnel.			
M. Uncertainty	±2.5dB			

Type		Microwave Oven
EUT / Ser.No.		SBD208B8H-PAFC0A
Manufacturer		Galanz
Condition		Full Power (Microwave Mode)
Operator		Vegia
Frequency Range	e(s)	Range 1
Start Frequency		150 kHz
Stop Frequency		30 MHz
Step Frequency		5 kHz
Attenuator		Auto
Detector	(Pre)	AV CISPR
IF Bandwidth	(Pre)	9 kHz
Measure Time	(Pre)	10 ms
Detector	(Final)	QP
IF Bandwidth	(Final)	9 kHz
Measure Time	(Final)	1 s
Sub Ranges	(Final)	20

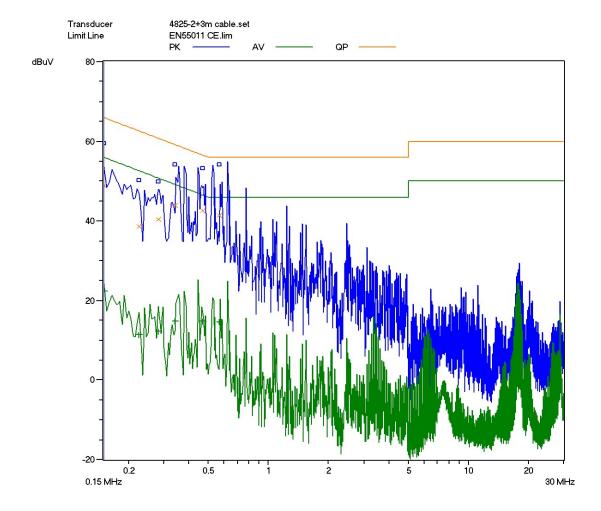


Line L Conducted Emission Graph

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	Туре		Microwave Oven		
EUT / Ser.No.			SBD208B8H-PAFC0A		
	Manufacturer		Galanz		
	Condition		Full Power (Microwave Mode)		
	Operator		Vegia		
	Frequency Range	e(s)	Range 1		
	Start Frequency		150 kHz		
	Stop Frequency		30 MHz		
	Step Frequency		5 kHz		
	Attenuator		Auto		
	Detector	(Pre)	AV CISPR		
	IF Bandwidth	(Pre)	9 kHz		
	Measure Time	(Pre)	10 ms		
	Detector	(Final)	QP		
	IF Bandwidth	(Final)	9 kHz		
	Measure Time	(Final)	1 s		
	Sub Ranges	(Final)	20		



Line N Conducted Emission Graph

Test Data

T in a	E	Corrected	Corrected	QP limit	AV limit
Line	Frequency	Reading(QP)	Reading(AV)	dB uV	dB uV
L	0.1796	43.7	17.0	64.4	54.4
L	0.3200	40.7	13.0	59.7	59.7
L	0.8560	42.4	13.1	58.8	58.8
N	0.3564	48.3	21.1	57.1	47.1
N	0.5232	48.5	21.1	56.0	46.0
N	0.6276	48.2	19.6	56.0	46.0

Test Equipment List

Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Receiver	SCHAFFNER	SMR4503	44	2008-07-08	2009-07-08
LISN	ETS	4825/2	1161	2008-07-08	2009-07-08
Shielding Room	ETS	N/A	N/A	2008-05-30	2009-05-30

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



Conducted Emission Test Set-up

ATTACHMENT 6-RADIATED EMISSION TEST RESULTS

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18		
Model Numbers: S(x)D208(y)(z)-(u)		Product: Microwave Oven		
Model Tested: SBD208B8H-P		EUT Designation: Home or Office		
Temperature: 23℃		Humidity: 45%RH		
ATM Pressure: 103kPa		Grounding: Through AC power cord		
Tested By: Vegia Huang		Date of Test: Oct 30, 2008		
Test Reference	ANSI C63.4: 2003, FC	C/OST MP-5:1986		
Test Procedure	ANSI C63.4: 2003, FCC/OST MP-5:1986 The EUT was set up according to the guidelines of ANSI C63.4: 2003 & FCC MP- 5 for radiated emissions. Microwave oven was placed on a 1m*1.5m nonconductive table. The top of the table is 0.8 m above the ground. The table is placed on a flush mounted metal turntable. An EMI receiver peak scan was made at the frequency measurement range (pre- scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. All data was recorded in Quasi-peak detection mode from 30 MHz to 1GHz and average detector mode above 1GHz. The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows: FS= RA + AF + CF - AG Where: FS = Field Strength RA = Receiver Amplitude AF = Antenna Factor CF = Cable Attenuation Factor AG = Amplifier Gain			
Tested Range Test Voltage	30MHz to 24.5GHz 120VAC/60Hz			
Results	The EUT meets the req	uirements of test reference for Radiated emission on by 21.30dBuV/m of Average detector at		
Changes or Modifications	There were no modifica	tions installed by Galanz test personnel.		
M. Uncertainty	±3.2dB			

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Test Data

30MHz-1GHz						
Frequency (MHz)	Antenna Polarization (V/H)	Corrected QP reading (dBµV/m)	Delta QP (dB)	3 Meters Limits (dBµV/m)		
33.138	Н	22.9	46.6	69.5		
57.828	Н	21.0	48.5	69.5		
453.828	Н	11.1	58.4	69.5		
33.4	V	10.9	58.6	69.5		
49.906	V	16.6	52.9	69.5		
470.542	V	18.5	51.0	69.5		

Note: All readings are quasi-peak unless stated otherwise, using a bandwidth of 120kHz, with a 30ms sweep time. A video filter was not used.

1GHz-25GHz						
Frequency (GHz)	Antenna Polarization (V/H)	Corrected AV reading (dBµV/m)	Delta AV (dB)	3 Meters Limits (dBµV/m)		
4.9145	Н	36.53	32.97	69.5		
8.0752	Н	42.60	26.90	69.5		
9.8421	Н	43.59	25.91	69.5		
4.9147	V	35.88	33.62	69.5		
7.3950	V	48.20	21.30	69.5		
9.8441	V	44.18	25.32	69.5		

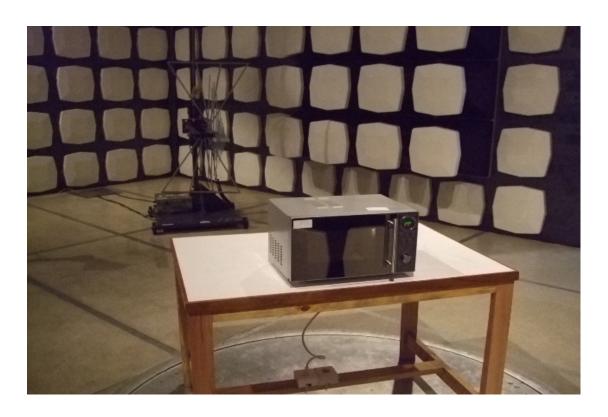
Comment: None

Note: All reading are average unless stated otherwise, using a bandwidth of 1MHz, with a 30 ms sweep time. A video filter was not used.

Test Equipment List

Test equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Broadband Antenna	ETS	3142C	00042672	2008-09-26	2010-09-26
Horn Antenna	ETS	3115	6587	2008-08-02	2010-08-02
Band-pass Filter	Micro-Tronic	BRM50702	S/N-030	2007-11-30	2008-11-30
EMI Receiver	SCHAFFNER	SMR4503	44	2008-07-08	2009-07-08
Spectrum Analyzer	R&S	FSP30	100755	2007-11-30	2008-11-30
3m Anechoic chamber	ETS	N/A	N/A	2007-05-23	2009-05-23

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



Radiated Emission Test Setup (30-1000MHz)



Radiated Emission Test Setup (1-25GHz)

The End

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